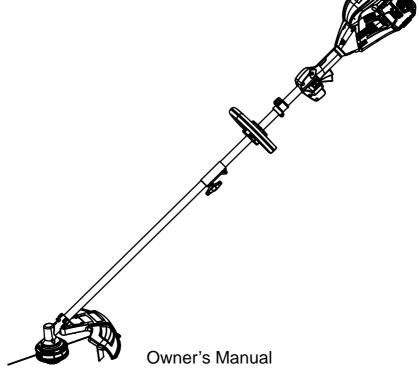


80V Brushless String Trimmer GST80321



**TOLL-FREE HELPLINE: 1-855-345-3934** 

www.GreenWorksTools.com

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# PRODUCT SPECIFICATIONS

# 80V BRUSHLESS STRING TRI mmER

Type	Cordless, battery-powered
Motor	80 V
String Cutting Width	14-16 in.
String Diameter	0.080" (2.03 mm)
Speed	5000/5500 RPM
Weight (without battery)	10.6 lbs
Weight (with 2Ah battery)	13.8 lbs
Battery pack	2901302
Charger	2901402







# IMPORTANT SAFETY INSTRUCTIONS

# **A** WARNINg

Read and understand all instructions before using this product. f ailure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

- Do not operate power tools in explosive atmospheres, such as in the presece of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- Do not allow children or untrained individuals to use this unit.
- Don't expose power tools to rain or wet conditions. Water entering a power tool will increase
  the risk of electric shock.
- Do not handle plug or tool with wet hands.
- Never allow children to operate the equipment. Never allow adults to operate the equipment without proper instruction.
- Always wear safety glasses with side shields marked to comply with ANSI Z87.1. Everyday
  glasses have only impact resistant lenses. They are NOT safety glasses. f ollowing this rule
  will reduce the risk of eye injury. Use face mask if operation is dusty.
- Secure long hair above shoulder level to prevent entanglement in moving parts.
- · Do not expose to rain, store indoors.
- · Do not operate in poor lighting.
- Keep all parts of your body away from any moving part
- keep hair, loose clothing, fingers and all body parts away from openings and moving parts.
- Wear heavy long pants, boots, and gloves. Avoid loose garments or jewelry that could get caught in moving parts of the machine or its motor.
- Do not force tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.
- Do not operate the equipment while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces.
- Secure long hair so it is above shoulder level to prevent entanglement in any moving parts.
- Keep firm footing and balance. Do not overreach. Overreaching can result in loss of balance.
- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- Do not use tool if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- Keep all bystanders, children, and pets at least 50 ft. away
- Do not operate this unit when you are tired, ill or under the influence of alcohol, drugs or medication.
- Keep all parts of your body away from any moving parts and all hot surfaces of the unit.
- Do not put any object into openings. Do not use with any opening blocked; keep openings free of dust, lint, hair, and anything that may reduce air flow.

# IMPORTANT SAFETY INSTRUCTIONS

- Check the work area before each use. Remove all objects such as rocks, broken glass, nails, wire, or string which can be thrown or become entangled in the machine.
- Use only identical manufacturer's replacement parts and accessories. Use of any other parts may create a hazard or cause product damage.
- Do not charge battery tool in rain, or damp or wet location. f ollowing this rule will reduce the risk of electric shock.
- f or household use only.
- Battery tools do not have to be plugged into an electrical outlet; therefore, they are always in
  operating condition. Be aware of possible hazards when not using your battery tool or when
  changing accessories. Following this rule will reduce the risk of electric shock, fire, or serious
  personal injury.
- Remove or disconnect battery before servicing, cleaning or removing material from the gardening appliance.
- · Use only Greenworks 80-volt batteries.
- Store idle appliances When not in use, string trimmer should be stored indoors in a dry, locked place out of the reach of children.
- Do not dispose of the batteries in a fire. The cells may explode. Check with local codes for possible special disposal instructions.
- Do not open or mutilate the batteries. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
- Do not place battery tools or their batteries near fire or heat. This will reduce the risk of explosion and possible injury.
- Batteries can explode in the presence of a source of ignition, such as a pilot light. To reduce
  the risk of serious personal injury, never use any cordless product in the presence of open
  flame. An exploded battery can propel debris and chemicals. If exposed, flush with water
  immediately.
- Do not crush, drop or damage battery pack. Do not use a battery pack or charger that has been dropped or received a sharp blow. A damaged battery is subject to explosion. Properly dispose of a dropped or damaged battery immediately.
- Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.
- f or best results, your battery tool should be charged in a location where the temperature is more than 50°F but less than 100°F. To reduce the risk of serious personal injury, do not store outside or in vehicles.
- Under extreme usage or temperature conditions, battery leakage may occur. If liquid comes in contact with your skin, wash immediately with soap and water, then neutralize with lemon juice or vinegar. If liquid gets into your eyes, flush them with clean water for at least 10 minutes, then seek immediate medical attention. f ollowing this rule will reduce the risk of serious personal injury.
- If the power supply cord is damaged, it must be replaced only by the manufacturer or by an authorized service center to avoid risk.
- Do not point the string trimmer in the direction of people or pets.

# IMPORTANT SAFETY INSTRUCTIONS

- When not in use, string trimmer should be stored indoors in a dry, locked up place—out of the reach of children.
- Maintain tool with care. Keep vents clean for best and safest performance. f ollow instructions
  for proper maintenance. Do not attempt to clear clogs from tool without first disconnecting the
  battery.
- To reduce the risk of electrical shock, do not expose to rain, do not use on wet surfaces. Store
  indoors.
- Save these instructions. Refer to them frequently and use them to instruct others who may use this power tool. If you loan someone this power tool, loan them these instructions also.

#### **CHILD SAFETY**

Tragic accidents can occur if the operator is not aware of the presence of children.

- · Keep children out of the working area and under the watchful care of a responsible adult.
- Do not allow children under the age of 14 to operate this trimmer. Children who are 14 years of age and older must read and understand the operating instructions and safety rules in this manual and must be trained and supervised by a parent.
- Stay alert, and turn the trimmer off if a child or any other person enters the working area.
- · Look behind and down for small children before and while cutting backwards.
- Use extreme care when approaching blind corners, doorways, shrubs, trees, or other objects that may obscure your view of a child who may run into the path of the trimmer.

# MARNING (PROPOSITION 65)

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- · Lead from lead-based paints
- Crystalline silica from bricks and cement and other masonry products, and
- Arsenic and chromium from chemically treated lumber.

Your risk of exposure to these chemicals varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

# **SYMBOLS**

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the product better and safer.

SYmBOL	NAmE	DESIGNATION/EXPLANATION	
V	Volts	Voltage	
А	Amperes	Current	
Hz	Hertz	frequency (cycles per second)	
W	Watts	Power	
min	Minutes	Time	
~	Alternating Current	Type of current	
	Direct Current	Type or a characteristic of current	
<b>®</b>	No Blade	Do not install or use any type of blade on a product or displaying this symbol.	
/min	Per Minute	Revolutions, strokes, surface speed, orbits etc., per minute.	
	Wet Conditions Alert	Do not expose to rain or use in damp locations.	
<b>ॐ</b>	Read The Operator's Manual	To reduce the risk of injury user must read and understand operator's manual before using this product.	
0	Eye Protection	Always wear eye protection with side shields marked to comply with ANSI Z87.1 when operating this equipment.	
A	Safety Alert	Precautions that involve your safety.	
	Ricochet	Thrown objects can ricochet and result in personal injury or property damage.	
37 Eq.	Keep Bystanders Away	Keep all bystanders at least 50 ft. away.	
	Class II Construction	Double-insulated construction	

# **SYMBOLS**

The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYmBOL	SIgNAL	mEANINg
lack	DANGER	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
lack	WARNINg	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
A	CAUTION	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
	CAUTION	(Without Safety Alert Symbol) Indicates a situation that may result in property damage.

#### **SFRVICE**

Servicing requires extreme care and knowledge and should be performed only by a qualified service technician. for service we suggest you return the product to your nearest **AUTHORIZED SERVICE CENTER** for repair. When servicing, use only identical replacement parts.

# **WARNINg**

To avoid serious personal injury, do not attempt to use this product until you have read this Owner's Manual thoroughly and understand it completely. If you do not understand the warnings and instructions in this Owner's Manual, do not use this product. Call the Toll-free Helpline (1-855-345-3934) for assistance. The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before operating a power tool, always wear safety goggles, safety glasses with side shields, or a full face shield when needed. We recommend a Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always use eye protection that is marked to comply with ANSI Z87.1.

# **A** WARNINg



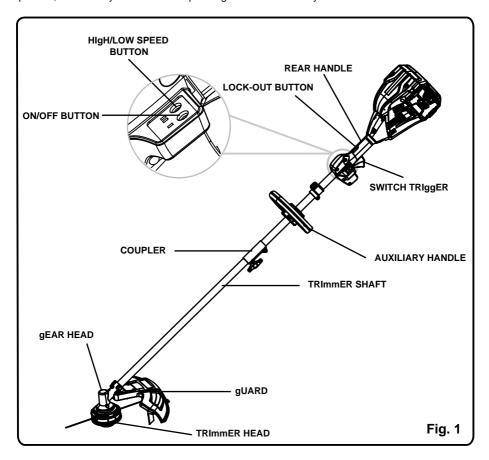
The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shields and, when needed, a full face shield. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always use eye protection which is marked to comply with ANSI Z87.1.

# SAVE THESE INSTRUCTIONS

# KNOW YOUR STRING TRIMMER

### KNOW YOUR STRING TRImmER (See Figure 1.)

The safe use of this product requires an understanding of the information on the product and in this operator's manual as well as a knowledge of the project you are attempting. Before use of this product, familiarize yourself with all operating features and safety rules.



#### **AUXILIARY HANDLE**

The string trimmer is equipped with an auxiliary handle for ease of operation and to prevent loss of control

### gUARD

The trimmer includes a guard that helps protect you from flying debris.

# **ASSEMBLY**

### UNPACKING

This product requires assembly.

- Carefully remove the product and any accessories from the box. Make sure that all items listed in the packing list are included.
- Inspect the tool carefully to make sure no breakage or damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated the tool.
- If any parts are damaged or missing, please call 1-855-345-3934.



Do not use this product if any parts on the packing list are already assembled to your product when you unpack it. Parts on this list are not assembled to the product by the manufacturer and require customer installation. Use of a product that may have been improperly assembled could result in serious personal injury.

### **PACKING LIST**

- Power head
- · Auxiliary handle
- · Straight shaft trimmer attachment
- Guard
- (4) Auxiliary handle screws
- · Operator's manual

# **A** WARNINg

If any parts are damaged or missing, do not operate this product until the parts are replaced. Use of this product with damaged or missing parts could result in serious personal injury.

# **A** WARNINg

Do not attempt to modify this product or create accessories not recommended for use with this blower. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

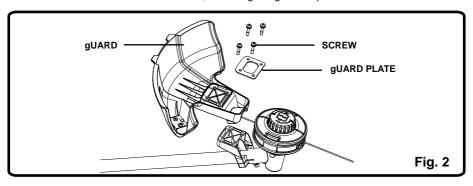
# **A** WARNINg

Do not connect to power supply until assembly is complete. failure to comply could result in accidental starting and possible serious personal injury.

### ATTACHING THE gUARD (See Figure 2.)

NOTE: Install the guard before the attachment is connected to the power head.

- Invert the string trimmer to access the trimmer head.
- Using a Phillips head screwdriver (not included), remove the pre-installed screws from the trimmer head.
- Place the guard on to the trimmer head and place the guard plate on the guard.
- Align the screw holes on the guard with the screw holes on the trimmer head.
- Insert the screws into the trimmer head, fastening the guard in place.



### **INSTALLING AN ATTACH MENT TO THE POWER HEAD** (See Figure 3.)

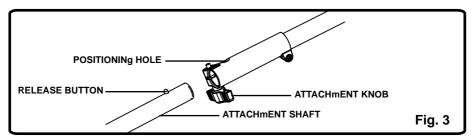


### **A** WARNINg

Read and understand entire Operator's Manual for each optional attachment used on this power head and follow all warnings and instructions. failure to follow all instructions may result in electric shock, fire and/or serious personal injury.

### 🛕 W A R N I N g

Never install, remove, or adjust any attachment while power head is running. Failure to stop the motor can cause serious personal injury. Never operate power head without an attachment.



NOTE: When using string trimmer attachments, use only .080 in. diameter line.

The attachment connects to the power head by means of a coupler device.

- · Loosen the attachment knob on the coupler.
- Push in the release button located on the attachment shaft. Align the button with the guide recess on the power head coupler and slide the two shafts together. Rotate the attachment shaft until the button locks into the positioning hole.

**NOTE**: If the button does not release completely in the positioning hole, the shafts are not locked into place. Slightly rotate from side to side until the button is locked into place.

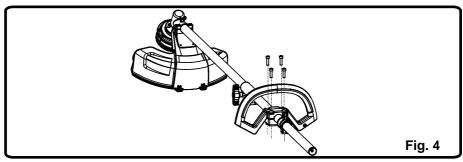
· Tighten the attachment knob securely.

### REMOVING THE ATTACH MENT FROM THE POWER HEAD

for removing or changing the attachment:

- · Stop the power head.
- · Remove the battery from the power head.
- · Loosen the attachment knob.
- Push in the release button and twist the shafts to remove and seperate ends.

# ATTACHING THE FRONT HANDLE (See Figure 4.)



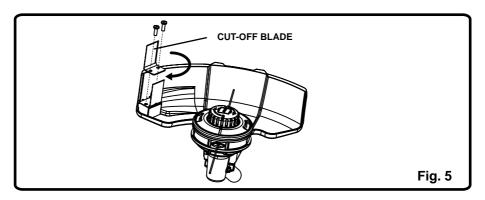
- Press the auxiliary handle onto the power head shaft so that the handle is angled toward the rear handle that allows for comfortable operation.
- Slide the bolts through the holes in the auxiliary handle, and tighten them securely.

### ADJUSTING THE CUTTING SWATH (See Figure 5.)

The trimmer is currently set at a 14 in. cutting swath. To adjust to a cutting swath of 16 in.:

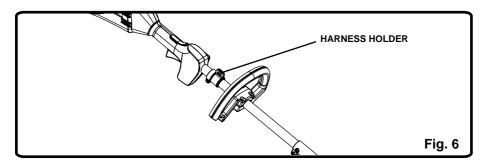
- Remove the battery from the string trimmer.
- Remove both screws on the cut-off blade with a Phillips screwdriver (not included).
- · Rotate the cut-off blade 180°.
- Replace both screws in the cut-off blade.

**Note:** Set the cut-off blade to 14 in. for greater runtime. Set the cut-off blade to 16 in. for greater cutting area.



### ATTACHING A SHOULDER HARNESS (See Figure 6.)

- Rotate the harness holder to the upward position.
- Hook a shoulder harness (not included) to the harness holder.



# **OPERATION**

# **WARNINg**

Read and understand entire Operator's Manual for each optional attachment used on this power head and follow all warnings and instructions. failure to follow all instructions may result in electric shock, fire and/or serious personal injury.

# **A** WARNINg

Do not allow familiarity with this product to make you careless. Remember that a careless fraction of a second is sufficient to inflict serious injury.

# **A** WARNINg

Do not use any attachments or accessories not recommended by the manufacturer of this product. The use of attachments or accessories not recommended can result in serious personal injury.

# **A** WARNINg

This string trimmer is not meant to be used with brush cutter attachments. Use of a brush cutter attachment could cause serious personal injuries or property damage.

### LOCK-OUT BUTTON (See Figure 7.)

The lock-out button reduces the possibility of accidental starting. The lock-out button is located on the handle above the switch trigger. The lock-out button must be depressed before you pull the switch trigger. The lock resets each time the trigger is released.

### STARTING AND STOPPING THE TRI mmER (See Figure 7.)

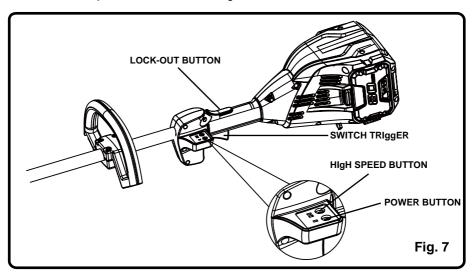
#### To start:

- Press the power button.
- Press high speed button to increase speed depending upon grass condition. Two LED's will
  illuminate above the high speed button indicating that the trimmer is in the high speed setting.
- Depress the lock-out button and squeeze the switch trigger.

#### To stop:

- · Release the switch trigger.
- · Press the power button again to turn the unit off.

Note: The unit will power itself down after being idle for 1 minute.



# OPERATING THE TRI mmER (See Figure 8.)

Hold the power head with your right hand on the rear handle and your left hand on the front handle. Keep a firm grip with both hands while in operation. Power head should be held at a comfortable position with the rear handle about hip height.

Always operate power head at full throttle. If debris becomes wrapped around the attachment, release the switch trigger, and remove the debris.



# **A** WARNINg

Any contact with the attachment cutting head can result in burns and/or other serious personal injury.

# **WARNINg**

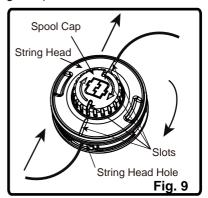
Extreme care must be taken when using a blade attachment to ensure safe operation. Read the safety information for safe operation when using a blade attachment and refer to the safety rules and instructions in your attachment manual. Never use a brush cutter attachment with this electric power head. Improper operation of a blade or any attachment could result in serious injury.

### INSTALLING STRING IN STRING HEAD (See Figure 9.)

- Line up the slots on the spool cap with the slots on the string head.
- 2. Insert line through the string head hole. Push line until it exits the opposite string head hole.
- Pull the line through until there is an equal amount of line on each side.
- Turn the spool cap clock-wise to begin winding the string into the string head. Leave approximately 5 inches of string protruding out of each side of the head.

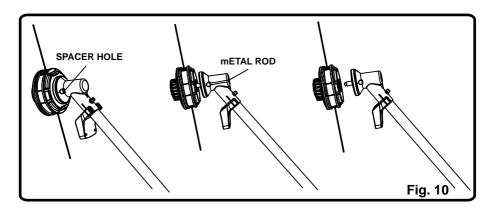
It is recommended that .080" line Diameter be used for this string head.

Note: Do not put more than 15 feet of line in at a time.



### REMOVING / REPLACING STRING HEAD (See Figure 10.)

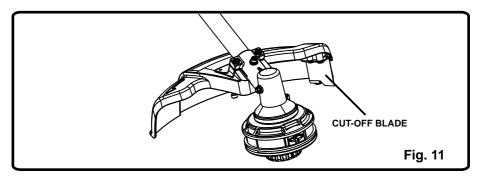
- 1. Line up the spacer hole up with the hole in the gear box.
- 2. Place a small screw driver or metal rod (Not included) in the spacer hole.
- 3. Rotate the head clockwise to loosen and remove.
- Reverse steps 1.-3. to reinstall the same string head.



Note: If you put a different model string head on this unit please follow the manufacturer's instructions to install that head.

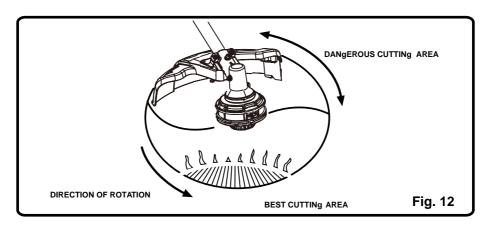
### LINE TRIMMING CUT-OFF BLADE (See Figure 11.)

The trimmer is equipped with a line trimming cut-off blade on the guard. Replace the string when trimming efficiency diminishes. This will maintain best performance.



### **CUTTINg TIPS** (See Figure 12.)

- Keep the trimmer tilted toward the area being cut; this is the best cutting area.
- The trimmer cuts when passing the unit from right to left. This will avoid throwing debris at the operator. Avoid cutting in the dangerous area shown in figure 12.
- Use the tip of string to do the cutting; do not force string head into uncut grass.
- Wire and picket fences cause extra string wear and breakage. Stone and brick walls, curbs, and wood may wear string rapidly.
- Avoid trees and shrubs. Tree bark, wood moldings, siding, and fence posts can easily be damaged by the string.



# MAINTENANCE



### 🛕 W A R N I N g

When servicing, use only identical replacement parts. Use of any other parts may create a hazard or cause product damage.



### 🛕 W A R N I N g

Before inspecting, cleaning, or servicing the machine, shut off motor, wait for all moving parts to stop, and disconnect extension cord, failure to follow these instructions can result in serious personal injury or property damage.

### *qENERAL mAINTENANCE*

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, lubricant, grease, etc.



### 🛕 W A R N I N g

Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating lubricants, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

You can often make adjustments and repairs described here. For other repairs, have the power head serviced by an authorized service dealer.

# **CLEANING THE POWER HEAD**

- Stop the motor and remove the battery.
- Clean dirt and debris from the power head using a damp cloth with a mild detergent.

Note: Do not use any strong detergents on the plastic housing or the handle. They can be damaged by certain aromatic oils such as pine and lemon, and by solvents such as kerosene.

# STORING THE POWER HEAD

- Clean all foreign material from the product.
- Store it in a well-ventilated place that is inaccessible to children.
- Keep away from corrosive agents such as garden chemicals and de-icing salts.



#### 🕰 W A R N I N q

Do not store the string trimmer in sunlight, in an excessively warm place, or near a furnace. The battery life will be shortened.

# **TROUBLESHOOTING**

PROBLEm	CAUSE	SOLUTION
	Check the battery charge.	Recharge the battery per the instructions in the battery manual.
Motor fails to start when switch trigger is depressed.	Check the power button.	Push the power button if no LED's are illuminated.
	Battery is not secure.	To secure the battery, make sure the latches on the battery compartment snap into place.
	The trimmer head is bound with grass.	Stop the trimmer, remove the battery, and remove the grass from the trimmer head.
String trimmer stops while cutting.	The battery pack is too hot.	Remove the battery and allow it to cool in a cool; dry area.
	The battery pack is fully discharged.	Recharge the battery per the instructions in the battery manual.
Line will not advance.	There is not enough line in the spool.	Remove the battery and replace the trimmer line.

# LIMITED f OUR-YEAR WARRANTY







GREENWORKS™ hereby warranties this product, to the original purchaser with **proof of purchase**, 4 year consumer warranty, 1 year commercial warranty against defects in materials, parts or workmanship. GREENWORKS™, at its own discretion will repair or replace any and all parts found to be defective, through normal use, free of charge to the customer. This warranty is valid only for units which have been used for personal use that have not been hired or rented for industrial/commercial use, and that have been maintained in accordance with the instructions in the owners' manual supplied with the product from new.

### ITEMS NOT COVERED BY WARRANTY:

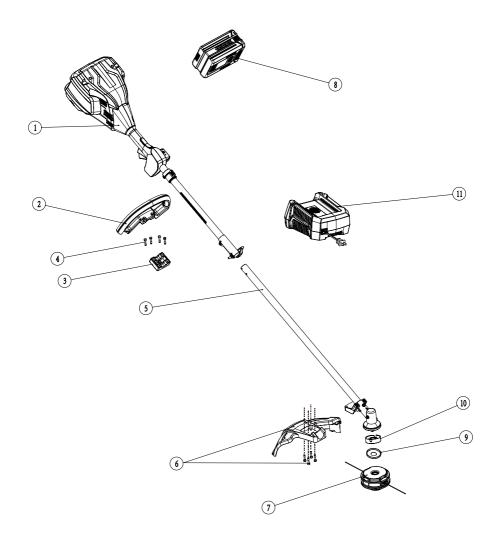
- Any part that has become inoperative due to misuse, abuse, neglect, accident, improper maintenance, or alteration; or
- The unit, if it has not been operated and/or maintained in accordance with the owner's manual: or
- 3. Normal wear, except as noted below;
- 4. Routine maintenance items such as lubricants, blade sharpening;
- 5. Normal deterioration of the exterior finish due to use or exposure.

### g REENWORKS HELPLINE (1-855-345-3934):

Warranty service is available by calling our toll-free helpline, 9 a.m. to 5 p.m. EST. Monday-friday at (1-855-345-3934).

### TRANSPORTATION CHARGES:

Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. It is the purchaser's responsibility to pay transportation charges for any part submitted for replacement under this warranty unless such return is requested in writing by **greenworks**.



# PARTS LIST

Item No.	Part No.	Description	QTY
1	31109719	Power head assembly	1
2	31111719	Auxiliary handle	1
3	34101185-4	Auxiliary handle base	1
4	33303719	Auxiliary handle screw	4
5	31110719	Lower shaft assembly	1
6	31105719	Guard assembly	1
7	34108178A	Dual line spool assembly	1
8	3220905B	Battery	1
9	31105719	Washer	1
10	34108178A	Spacer	1
11	3220905B	Charger	1



**TOLL-FREE HELPLINE: 1-855-345-3934**